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B9. OPTICAL NETWORK SERVICE (N)

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SECTION 9 (1)

By 
Executive Director

ISSUED: March 31, 2006
BY: E.C. Roberts, Jr., President - KY
Louisville, Kentucky

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B9. OPTICAL NETWORK SERVICE

B9.1 BellSouth Wavelength Service

B9.1.1 General

- A. BellSouth Wavelength service provides high volume optical transport capabilities utilizing point-to-point and dedicated ring topologies. BellSouth Wavelength service is available in two (2) different service arrangements, i.e., a Basic Arrangement and a Dedicated Ring Arrangement. These service arrangements provide various transparent transport and bit rate specific wavelength channel service capabilities to support customer needs for broadband connectivity.
- B. The BellSouth Wavelength service Basic Arrangement provides dedicated bandwidth over shared facilities in point-to-point service configurations. The BellSouth Wavelength service Basic Arrangement provides the capability for customers to subscribe to individual transparent transport and bit rate specific Wavelength Channels, as identified in D. following, between two customer premises or between a customer premise and the primary serving Central Office of the customer premises. The BellSouth Wavelength service Basic Arrangement between two customer premise locations will be routed through a Telephone Company Central Office for purposes of alarming and monitoring the service.

BellSouth Wavelength service Basic Arrangement is available with Unprotected Wavelength Channels. BellSouth Wavelength service Basic Arrangement ***Unprotected*** Wavelength Channels may be configured in a Client Protection arrangement ***or with Channel Network Protection***. With Client Protection, two (2) Unprotected Wavelength Channels interconnect with a customer's equipment to provide a level of protection for a customer's service. Customer provided equipment shall provide required switching between wavelength channels in a Client Protection arrangement. ***With Channel Network Protection, two (2) Unprotected Basic Arrangement Wavelength Channels are utilized in conjunction with Telephone Company equipment at a customer's premises to provide a level of survivability for a customer's service in case of a failure associated with one of the two (2) Unprotected Wavelength Channels.***

- C. The BellSouth Wavelength service Dedicated Ring Arrangement provides dedicated bandwidth over dedicated facilities in a ring topology service configuration. A BellSouth Wavelength service Dedicated Ring Arrangement provides the capability for customers to activate wavelength channels between Service Node locations on the ring. A Service Node location is a location where equipment is located that provides customers add/drop connectivity to a BellSouth Wavelength service Dedicated Ring Arrangement via Primary System and Expansion System service components. These service components are considered ring level and contain the fiber transport associated with the service. A minimum of two (2) Service Node locations is required for a BellSouth Wavelength service Dedicated Ring Arrangement. This minimum configuration may be Service Nodes at either a customer-designated premises and a telephone company serving wire center, at two (2) telephone company serving wire centers or at two (2) customer-designated premises. Additional Service Node locations at customer-designated premises and/or at telephone company serving wire centers may be established, up to the limitation of the service. BellSouth Wavelength service Dedicated Ring Arrangement Wavelength Channels are available for the activation of wavelengths between Service Node locations.

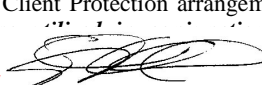
For BellSouth Wavelength Service Dedicated Ring Arrangements with Service Node locations only at customer designated premises, a Monitoring Node may be required at a Telephone Company Central Office in order to assure proper operation of a customer's service and provide alarming/monitoring capability. A Monitoring Node does not contain the capability to add or drop services and will be provided at no additional charge to the customer. A Monitoring Node will appear on a customer's records as a non-rated USOC, as follows:

Monitoring Node, non-rated

USOC
W32MN

BellSouth Wavelength service Dedicated Ring Arrangements are available with Single Bay or Dual Bay service capabilities. The Single Bay arrangement allows the customer to activate up to 16 wavelengths between adjacent Service Node locations and a Dual Bay arrangement allow the customer to activate up to 32 wavelengths between adjacent Service Node locations. Both service configurations have Primary System and Expansion System service components that apply on a per physical bay basis. Single Bay service components are a Primary System – Single Bay and Expansion System – Single Bay. Dual Bay service components are a Primary System – Dual Bay and Expansion System – Dual Bay. Customers with a Single Bay arrangement whose wavelength requirement exceeds the capacity of his existing arrangement may add an additional separate Single Bay service arrangement or upgrade to a Dual Bay arrangement. For customer upgrades involving conversion of a Single Bay to a Dual Bay service arrangement, the conversion will result in a service outage of the customer's Single Bay arrangement (outage credits will not apply for this conversion).

BellSouth Wavelength service Dedicated Ring Arrangements are available with Unprotected ***or with Optical Network Protected*** Wavelength Channels. Unprotected BellSouth Wavelength service Wavelength Channels for Dedicated Ring Arrangements may be configured with Client Protection. With Client Protection, two (2) Unprotected Wavelength Channels interconnect with a customer's equipment to provide a level of protection for a customer's service. Customer provided equipment shall provide required switching between wavelength channels in a Client Protection arrangement. ***With Optical Network Protected Wavelength Channels, two (2) wavelength channels a*** ***with Telephone Company equipment to provide a level of survivability for a customer's service*** ***d with one of***

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B9. OPTICAL NETWORK SERVICE

B9.1 BellSouth Wavelength Service (Cont'd)

B9.1.1 General (Cont'd)

C. (Cont'd)

the two wavelengths. The protection option selected by customers for wavelength channels will determine the total number of Wavelength Channels available on Primary Systems and/or Expansion Systems. (C)

A BellSouth Wavelength service Dedicated Ring Arrangement provides the capability for customers to transport transparent and bit rate specific Wavelength Channels, as identified in D. following.

A BellSouth Wavelength service Dedicated Ring Arrangement requires amplification when the distance between Service Node locations and/or characteristic of the fiber optic cable results in a transmission level that is not suitable for the service's proper operation. When amplification is required, it will be provided via an Optical Signal Amplification Node. An Optical Signal Amplification Node does not provide drop or add capabilities for Wavelength Channels and does not count toward the service's minimum requirement of two Service Nodes. Detailed engineering design will determine the need for amplification and its placement in the customer's network. Such amplification will be shown on the service inquiry and billed accordingly.

The fiber facilities utilized to provide a BellSouth Wavelength service Dedicated Ring Arrangement will have route diversity, where facilities are available, based on the routing of existing facilities serving a customer's location(s). Special Construction charges shall apply for customer request associated with additional diversity of fiber facilities.

D. The various Wavelength Channels that are available via a BellSouth Wavelength service Basic Arrangement or Dedicated Ring Arrangement are as follows:

| <u>Wavelength Channels</u> | <u>Basic Arrangement</u> | <u>Dedicated Ring Arrangement</u> |
|---|--------------------------|-----------------------------------|
| 1.25 Gbps Transparent Transport | X | X |
| 2.5 Gbps Transparent Transport | X | X |
| 10 Gbps WAN Wavelength Transport | X | X |
| 10 Gbps LAN Wavelength Transport | | X |
| OC-3 Wavelength Transport | X | X |
| OC-12 Wavelength Transport | X | X |
| OC-48 Wavelength Transport | X | X |
| OC-192 Wavelength Transport | X | X |
| Gigabit Ethernet at 1 Gbps Wavelength Transport | X ¹ | X |
| Fast Ethernet at 100Mbps Wavelength Transport | | X |
| Fibre Channel 100 Wavelength Transport | | X |
| Fibre Channel 200 Wavelength Transport | | X |
| Fiber Connection (FICON™) Wavelength Transport | | X |
| Fiber Connection Express (FICON™ Express) Wavelength Transport | | X |
| Enterprise System Connection (ESCON™) - Single Byte command code sets | | X |
| Connection (SBCON) Wavelength Transport | | |

The general description of the Wavelength Channels is as shown below. Detailed transport specifications, capabilities and line rates are described in TR 73630 BT.

- 1.25 Gbps Transparent Transport – provides a fiber based transport interface
- 2.5 Gbps Transparent Transport – provides a fiber based transport interface
- 10G WAN-PHY Wavelength Transport – a version of Ethernet with a WAN-PHY only interface.
- 10G LAN-PHY Wavelength Transport – a version of Ethernet with a LAN-PHY only interface.
- OC-3 Wavelength Transport – provides fiber based synchronous optical full duplex data transmission capability and a transparent data communications channel.
- OC-12 Wavelength Transport – provides fiber based synchronous optical full duplex data transmission capability and a transparent data communications channel.

Note 1: For Basic Arrangements, the Gigabit Ethernet at 1 Gbps Wavelength Transport is available as an Interoffice Channel for connecting a BellSouth Wavelength service Dedicated Ring Arrangement to Light Gate service, SMARTRing service or to another BellSouth Wavelength service Dedicated Ring Arrangement.

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B9. OPTICAL NETWORK SERVICE

B9.1 BellSouth Wavelength Service (Cont'd)

B9.1.1 General (Cont'd)

D. (Cont'd)

- OC-48 Wavelength Transport – provides fiber based synchronous optical full duplex data transmission capability and a transparent data communications channel.
- OC-192 Wavelength Transport – provides fiber based synchronous optical full duplex data transmission capability and a transparent data communications channel.
- ESCONTM / SBCON Wavelength Transport – Enterprise Systems Connection / Single Byte command code sets Connection. ESCON is an IBM duplex optical connection used for computer-to-computer data exchange. SBCON is the industry standard equivalent to IBM ESCON.
- FICONTM and FICONTM Express Wavelength Transport – An IBM higher-speed evolution of ESCONTM, enabling connectivity among mainframes, storage devices and peripherals.
- Fibre Channel 100 and Fibre Channel 200 Wavelength Transport – An industry standard protocol used to interconnect Storage Area Networks (SANs).
- Fast Ethernet Wavelength Transport – a version of Ethernet.
- Gigabit Ethernet (1 Gbps) Wavelength Transport – a version of Ethernet.

BellSouth will install, test and verify that Wavelength Channels can be carried and transmitted from BellSouth network interface to BellSouth network interface. BellSouth Wavelength service Wavelength Channels do not provide protocol functionality, they only provide a transport for the protocol.

- E. The compatibility requirements and technical specifications (*including Channel Network Protection and Optical Network Protection*) for BellSouth Wavelength service are as shown in technical reference TR-73630 BT. (C)
- F. Wavelength Channels with time delay sensitive protocols, as identified in TR 73630 BT, have facility length limitations and may not be available on some BellSouth Wavelength service Dedicated Ring Arrangements, or may not be available between some nodes on certain BellSouth Wavelength service Dedicated Ring Arrangements.
- G. The customer must provide suitable floor space, controlled environment, and source of non-switched suitable power to support this service.
- H. Where the customer provides two separate entrance facility cable routes BellSouth Wavelength service, the primary and alternate facilities will be separate and will enter the customer location, at the initial installation of the service, over such different routes. Request for separate entrance facilities to a customer location, subsequent to installation of the service, shall be accommodated via a Special Construction request.
- I. BellSouth Wavelength service provides physical layer transport only. The Company assumes no responsibility for the signals generated by the customer, for the quality of or defects in such signals, for the reception of signals by the customer, or address signaling, to the extent addressing is performed by the customer. Error detection and correction of data generated by the customer is the customer's responsibility.
- J. Wavelength Channels with time delay sensitive protocols, as identified in TR 73630 BT, have facility length limitations and may not be available on some BellSouth Wavelength service Dedicated Ring Arrangements, or may not be available between some nodes on certain BellSouth Wavelength service Dedicated Ring Arrangements.
- K. Neither electrical interfaces nor optical add/drop multiplexing are available with BellSouth Wavelength service.
- L. The customer is responsible to ensure that customer provided CPE meets any applicable technical requirements or limitations for the protocol used for the connection to the BellSouth Wavelength Service.
- M. BellSouth Wavelength service Dedicated Ring Arrangement wavelength channels may connect to LightGate service or SMARTRing service where LightGate service or SMARTRing service interfaces are compatible with a wavelength channel.
- N. A BellSouth Wavelength service Basic Arrangement Wavelength Interface Channel must have a connection to a Basic Arrangement Wavelength Local Channel, to a BellSouth Wavelength service Dedicated Ring Arrangement wavelength channel, or to LightGate service or SMARTRing service where LightGate service or SMARTRing service interfaces are compatible with a wavelength channel.
- O. When BellSouth Wavelength service is requested at locations where fiber facilities are not available to satisfy customer requests, special construction charges will apply as set forth in Section B5., preceding.

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B9. OPTICAL NETWORK SERVICE

B9.1 BellSouth Wavelength Service (Cont'd)

B9.1.2 Application of Rates

- A. BellSouth Wavelength service Basic Arrangement Wavelength Channels are available for point-to point applications between two customer premises or for connection of a customer's premises to his BellSouth Wavelength service Dedicated Ring Arrangement in a telephone company central office. BellSouth Wavelength service Basic Arrangement service components are a Wavelength Local Channel and Wavelength Interoffice Channel. The Wavelength Local Channel rate element provides service between a customer's premises and the local telephone company central office. The Wavelength Interoffice Channel rate element provides service between telephone company central offices.
- B. For Basic Arrangement Wavelength Channels with Channel Network Protection, two (2) Unprotected Wavelength Local Channels and/or Interoffice Channels are configured as primary and secondary wavelengths between a customer's premises. The primary and secondary wavelengths utilize Channel Network Protection – Primary Wavelength and Channel Network Protection – Secondary Wavelength service components to provide network protection and apply per customer premise requested with network protection. (N)
- C. BellSouth Wavelength service Dedicated Ring Arrangement service components are a Primary System, Expansion System, Dedicated Ring Wavelength Channels, Optical Signal Amplification Node and Monitoring Node. Primary System and Expansion System service components are further classified as Single Bay and Dual Bay, depending on the arrangement ordered by a customer. The Single Bay arrangement allows the customer to activate up to 16 wavelengths between adjacent Service Node locations. The Dual Bay arrangement allows the customer to activate up to 32 wavelengths between adjacent Service Node locations. The quantity of activated wavelengths is dependent upon a customer's application of Unprotected, Client Protected *and/or Optical Network Protected* Wavelength Channels. *Optical Network Protected Wavelength Channels are available for transport between two (2) customer premise Service Node locations on a Dedicated Ring Arrangement or for transport between a customer premise Service Node location and a telephone company serving wire center Service Node where they may only connect to another BellSouth Wavelength service Dedicated Ring Arrangement.* (C)
- D. Wavelengths are activated at Service Node locations on a BellSouth Wavelength service Dedicated Ring Arrangement Single Bay arrangement via Primary System - Single Bay and Expansion System – Single Bay service component. The Primary System - Single Bay service component applies at each Service Node location on a customer's ring, and provides a the capability to activate up to 8 wavelengths east and west leaving a Service Node location. Once the capability of the Primary System - Single Bay service component is utilized, in order to activate additional wavelengths, an Expansion System – Single Bay service component is required at each Service Node location on the ring. The Expansion System - Single Bay service component provides the capability to activate up to 8 east and west wavelengths leaving a Service Node location. When a customer utilizes the wavelength capacity of a Primary System - Single Bay and Expansion System - Single Bay service arrangement, additional wavelengths may activated via another separate BellSouth Wavelength service Dedicated Ring Arrangement Single Bay arrangement or a customer may convert a Single Bay arrangement to a Dual Bay arrangement. Conversions of a Single Bay arrangement to a Dual Bay arrangement will involve a service outage associate with wavelength channels for which service outage credits do not apply. The Single Bay service components and capacities per Service Node location on a ring are as follows: (T)

Single Bay Capacities and Service Components Per Service Node Location

| <u>Service Component</u> | <u>Wavelengths Per Service Component</u> |
|-------------------------------|--|
| Primary System – Single Bay | 8 East and 8 West |
| Expansion System – Single Bay | 8 East and 8 West |

For example, the Single Bay ring level service components, per Service Node location, for a customer that has a need for 15 east and west wavelength channels would be a Primary System – Single Bay and an Expansion System – Single Bay.

- E. Wavelengths are activated at Service Node locations on a BellSouth Wavelength service Dedicated Ring Arrangement Dual Bay arrangement via Primary System - Dual Bay and Expansion System - Dual Bay service components. Two Primary System – Dual Bay service components apply per Service Node location in the dual bay configuration and have the capability to activate up to 8 east and west wavelengths leaving a Service Node location. Once the capability of the Primary System - Dual Bay service components are utilized, in order to activate additional wavelengths, Expansion System - Dual Bay service components are required at each Service Node location on the ring. A Dual Bay Expansion System is comprised of two (2) Expansion System – Dual Bay service components per Service Node location on a ring and provides the capability to activate up to 8 east and west leaving a Service Node location. Three (3) Dual Bay Expansion System may be added to Primary System - Dual Bay service components to provide the total capability of a Dual Bay service configuration. (T)

Material previously appearing on this page now appears on page(s) 5 of this section.

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B9. OPTICAL NETWORK SERVICE

B9.1 BellSouth Wavelength Service (Cont'd)

B9.1.2 Application of Rates (Cont'd)

E. (Cont'd)

The Dual Bay service components and capacities per Service Node location on a ring are further illustrated as follows:

| <u>Dual Bay Capacities and Service Components Per Service Node Location</u> | |
|---|--|
| <u>Service Component</u> | <u>Wavelengths Per Service Component</u> |
| Primary System – Dual Bay (quantity of 2) (purchased in pairs) | 8 East or 8 West |
| Expansion System – Dual Bay (quantity of 2) (purchased in pairs) | 8 East or 8 West |
| Expansion System – Dual Bay (quantity of 2) (purchased in pairs) | 8 East or 8 West |
| Expansion System – Dual Bay (quantity of 2) (purchased in pairs) | 8 East or 8 West |

For example, the Dual Bay ring level service components, per Service Node location, for a customer that has a need for 15 east and west wavelength channels would be two (2) Primary System – Dual Bay and two (2) Expansion System – Dual Bay. If the customer's requirements for wavelength channels increased to 17 east and west wavelength channels, two (2) additional Expansion System – Dual Bay service component would apply per Service Node location. In order to fully utilize the 32 east and west wavelength capability of this Dual Bay example, two (2) more Expansion System – Dual Bay service component would apply per Service Node location on the ring.

BellSouth Wavelength service Dedicated Ring Arrangement Wavelength Channel rates and charges apply for the wavelengths activated between Service Node locations on the ring.

The Optical Signal Amplification Node applies per location requiring amplification to meet the services transmission requirements. Optical Signal Amplification Nodes will be specified on the service inquiry and billed accordingly.

F. In order to accommodate more flexible customer situations, BellSouth Wavelength service arrangements are available under several payment plans: Month-to-Month, 36 Month Term Payment Plan (24-48 months), 60 Month Term Payment Plan (49-72 months), or 84 Month Term Payment Plan (73-96 months). The month-to-month service arrangement is only available upon completion of a Channel Services Payment Plan agreement. The 36, 60, and 84 Month Term Payment Plans are provided under conditions specified in the Channel Services Payment Plan, (CSPP), B2.4.9 preceding, except as modified following. For all payment plans, the following regulations apply:

1. All Primary System and Expansion System rate elements associated with a BellSouth Wavelength service Dedicated Ring Arrangement, whether ordered initially or subsequent to the initial installation, must be provided under the same CSPP payment plan with the same service period and are coterminous upon disconnect of the BellSouth Wavelength service.
2. The minimum service period for BellSouth Wavelength service components is 24 months.
3. BellSouth Wavelength service wavelength channels must initially be provided under a CSPP service arrangement. BellSouth Wavelength service wavelength channels associated with a BellSouth Wavelength service Dedicated Ring Arrangement are not required to be under the same CSPP payment plan or service period as their associated BellSouth Wavelength service Dedicated Ring Arrangement
4. The rates applicable to a month-to-month payment plan are subject to Company initiated changes.
5. A termination liability charge will be applicable if services provided under a CSPP arrangement are disconnected prior to the end of the chosen service period. The applicable charge is equal to the number of months remaining in the rate stabilized service period times fifty percent (50%) of the monthly rates for BellSouth Wavelength service which include all service components under the CSPP arrangement.
6. When a service period under an existing CSPP arrangement is completed and a customer elects to revert to a month-to-month payment option, no minimum period is applicable. If the customer does not select a new payment period or does not request discontinuance of service, service will be continued under the terms specified in B2.4 of this Tariff.
7. Each BellSouth Wavelength service Basic Arrangement wavelength channel is an individual standalone payment plan, independent of any other BellSouth Wavelength service payment plan.

G. When Wavelength Channels are setup in a Client Protection arrangement, there is no charge for existing Client Protection if it is setup at the time the associated Wavelength Channels are activated. If Client Protection is established on Wavelength Channels subsequent to their activation, a Client Protection Rearrangement Charge applies per existing Wavelength Channel configured for Client Protection. This charge would also apply if a customer has Client Protection existing and wants to rearrange the Wavelength Channels associated with the existing Client Protection arrangement. Also, if a customer removes channels from an existing Client Protection arrangement, the Client Protection Rearrangement Charge applies to the Wavelength Channel(s) that are removed from the Client Protection arrangement, unless both the Wavelength Channels are disconnected.

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B9. OPTICAL NETWORK SERVICE

B9.1 BellSouth Wavelength Service (Cont'd)

B9.1.3 Rates and Charges

A. BellSouth Wavelength service Basic Arrangement

1. Wavelength Local Channel

| | Nonrecurring Charge | Month to Month | 24 to 48 Months | 49 to 72 Months | 73 to 96 Months | USOC |
|--|---------------------|----------------|-----------------|-----------------|-----------------|-------|
| (a) Per 1.25 Gbps Transparent Transport Unprotected | \$1,000.00 | \$2,085.00 | \$1,605.00 | \$1,395.00 | \$1,215.00 | W32BA |
| (b) Per 2.5 Gbps Transparent Transport Unprotected | 1,000.00 | 3,570.00 | 2,975.00 | 2,590.00 | 2,250.00 | W32BC |
| (c) Per OC-3 Wavelength Transport Unprotected | 1,000.00 | 1,645.00 | 1,265.00 | 1,098.00 | 955.00 | W32B1 |
| (d) Per OC-12 Wavelength Transport Unprotected | 1,000.00 | 2,085.00 | 1,605.00 | 1,395.00 | 1,215.00 | W32B3 |
| (e) Per OC-48 Wavelength Transport Unprotected | 1,000.00 | 3,570.00 | 2,975.00 | 2,590.00 | 2,250.00 | W32B5 |
| (f) Per OC-192 Wavelength Transport Unprotected | 1,500.00 | 7,495.00 | 6,250.00 | 5,430.00 | 4,725.00 | W32BE |
| (g) Per 10 Gbps WAN Wavelength Transport Unprotected | 1,500.00 | 7,495.00 | 6,250.00 | 5,430.00 | 4,725.00 | W32BG |

2. Wavelength Interoffice Channel

| | | | | | | |
|---|----------|----------|----------|----------|----------|-------|
| (a) Per 1.25 Gbps Transparent Transport Unprotected | 1,000.00 | 4,390.00 | 3,375.00 | 2,934.00 | 2,550.00 | W32BJ |
| (b) Per 2.5 Gbps Transparent Transport Unprotected | 1,000.00 | 4,660.00 | 4,050.00 | 3,520.00 | 3,060.00 | W32BL |
| (c) Per OC-3 Wavelength Transport Unprotected | 1,000.00 | 3,380.00 | 2,600.00 | 2,260.00 | 1,965.00 | W32BR |
| (d) Per OC-12 Wavelength Transport Unprotected | 1,000.00 | 4,390.00 | 3,375.00 | 2,934.00 | 2,550.00 | W32BT |
| (e) Per OC-48 Wavelength Transport Unprotected | 1,000.00 | 4,660.00 | 4,050.00 | 3,520.00 | 3,060.00 | W32BV |
| (f) Per OC-192 Wavelength Transport Unprotected | 1,500.00 | 6,060.00 | 5,270.00 | 4,580.00 | 3,980.00 | W32BN |
| (g) Per 10 Gbps WAN Wavelength Transport Unprotected | 1,500.00 | 6,060.00 | 5,270.00 | 4,580.00 | 3,980.00 | W32BP |
| (h) Per Gigabit Ethernet at 1 Gbps Wavelength Transport Unprotected | 1,000.00 | 3,470.00 | 2,670.00 | 2,345.00 | 2,040.00 | W32BX |

3. Channel Network Protection¹

| | | | | | | | |
|------------------------------|--------|--------|--------|--------|--------|-------|-----|
| (a) Per Primary Wavelength | 300.00 | 535.00 | 355.00 | 285.00 | 250.00 | W32PP | (N) |
| (b) Per Secondary Wavelength | 300.00 | 535.00 | 355.00 | 285.00 | 250.00 | W32PS | (N) |

Note 1: Channel Network Protection Primary Wavelength and Secondary Wavelength service components apply per BellSouth Wavelength service Basic Arrangement Wavelength Local Channel, per customer premises configured with Channel Network Protection (N)

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B9. OPTICAL NETWORK SERVICE

B9.1 BellSouth Wavelength Service (Cont'd)

B9.1.3 Rates and Charges (Cont'd)

B. BellSouth Wavelength service Dedicated Ring Arrangement

1. Primary System

| | | Nonrecurring Charge | Month to Month | 24 to 48 Months | 49 to 72 Months | 73 to 96 Months | USOC |
|-----|---|------------------------|-------------------|--------------------|--------------------|--------------------|-------|
| (a) | Per Primary System – Single Bay ¹ | \$2,000.00 | \$7,180.00 | \$5,525.00 | \$4,695.00 | \$3,990.00 | W32RA |
| (b) | Per Primary System – Dual Bay ¹ | 3,000.00 | 3,775.00 | 2,905.00 | 2,525.00 | 2,195.00 | W32RB |
| 2. | Expansion System | | | | | | |
| (a) | Per Expansion System – Single Bay ¹ | 1,500.00 | 2,795.00 | 2,150.00 | 1,870.00 | 1,625.00 | W32RC |
| (b) | Per Expansion System – Dual Bay ¹ | 2,000.00 | 1,365.00 | 1,050.00 | 910.00 | 790.00 | W32RD |
| 3. | Wavelength Channel | | | | | | |
| (a) | Per 1.25 Gbps Transparent Transport Unprotected | 2,000.00 | 3,480.00 | 2,675.00 | 2,325.00 | 2,000.00 | W32DA |
| (b) | Per 2.5 Gbps Transparent Transport Unprotected | 2,500.00 | 6,210.00 | 4,775.00 | 4,150.00 | 3,610.00 | W32DC |
| (c) | Per 10 Gbps WAN Wavelength Transport Unprotected | 3,000.00 | 11,690.00 | 8,990.00 | 7,820.00 | 6,800.00 | W32DE |
| (d) | Per 10 Gbps LAN Wavelength Transport Unprotected | 3,000.00 | 11,690.00 | 8,990.00 | 7,820.00 | 6,800.00 | W32DG |
| (e) | Per OC-3 Wavelength Transport Unprotected | 2,000.00 | 3,035.00 | 2,020.00 | 1,760.00 | 1,530.00 | W32DJ |
| (f) | Per OC-12 Wavelength Transport Unprotected | 2,000.00 | 3,480.00 | 2,675.00 | 2,325.00 | 2,000.00 | W32DL |
| (g) | Per OC-48 Wavelength Transport Unprotected | 2,500.00 | 6,210.00 | 4,775.00 | 4,150.00 | 3,610.00 | W32DN |
| (h) | Per OC-192 Wavelength Transport Unprotected | 3,000.00 | 11,690.00 | 8,990.00 | 7,820.00 | 6,800.00 | W32DP |
| (i) | Per Gigabit Ethernet at 1 Gbps Wavelength Transport Unprotected | 2,000.00 | 3,115.00 | 2,395.00 | 2,085.00 | 1,800.00 | W32DR |
| (j) | Per Fibre Channel 100 Wavelength Transport Unprotected | 2,000.00 | 3,115.00 | 2,395.00 | 2,085.00 | 1,800.00 | W32DT |
| (k) | Per Fibre Channel 200 Wavelength Transport Unprotected | 2,500.00 | 5,590.00 | 4,300.00 | 3,740.00 | 3,250.00 | W32DV |
| (l) | Per Fast Ethernet at 100 Mbps Wavelength Transport Unprotected | 2,000.00 | 1,695.00 | 1,305.00 | 1,135.00 | 990.00 | W32DX |
| (m) | Per Fibre Connection TM Channel Wavelength Transport Unprotected | 2,000.00 | 3,115.00 | 2,395.00 | 2,085.00 | 1,800.00 | W32DZ |
| (n) | Per Fibre Connection TM Express Channel Wavelength Transport Unprotected | 2,500.00 | 5,590.00 | 4,300.00 | 3,740.00 | 3,250.00 | W32D2 |
| (o) | Per Enterprise System Connection TM – SBCON Channel Wavelength Transport Unprotected | 2,000.00 | 1,760.00 | 1,355.00 | 1,175.00 | 1,025.00 | W32D4 |

Note 1: See B9.1.2C and B9.1.2D preceding for the rate application per Service Node location on a BellSouth Wavelength service Dedicated Ring Arrangement.

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Executive Director

(M)

ISSUED: March 31, 2006

EFFECTIVE: April 15, 2006

BY: E.C. Roberts, Jr., President - KY
Louisville, Kentucky

B9. OPTICAL NETWORK SERVICE

B9.1 BellSouth Wavelength Service (Cont'd)

B9.1.3 Rates and Charges (Cont'd)

B. BellSouth Wavelength service Dedicated Ring Arrangement (Cont'd)

3. Wavelength Channel (Cont'd)

| | | Nonrecurring Charge | Month to Month | 24 to 48 Months | 49 to 72 Months | 73 to 96 Months | USOC |
|------|--|------------------------|-------------------|--------------------|--------------------|--------------------|-------|
| (p) | Per 1.25 Gbps Transparent Transport Optical Network Protected ¹ | \$2,000.00 | \$5,916.00 | \$4,548.00 | \$3,953.00 | \$3,400.00 | W32DB |
| (q) | Per 2.5 Gbps Transparent Transport Optical Network Protected ¹ | 2,500.00 | 10,557.00 | 8,118.00 | 7,055.00 | 6,137.00 | W32DD |
| (r) | Per 10 Gbps WAN Wavelength Transport Optical Network Protected ¹ | 3,000.00 | 19,873.00 | 15,283.00 | 13,294.00 | 11,560.00 | W32DF |
| (s) | Per 10 Gbps LAN Wavelength Transport Optical Network Protected ¹ | 3,000.00 | 19,873.00 | 15,283.00 | 13,294.00 | 11,560.00 | W32DH |
| (t) | Per OC-3 Wavelength Transport Optical Network Protected ¹ | 2,000.00 | 5,160.00 | 3,434.00 | 2,992.00 | 2,601.00 | W32DK |
| (u) | Per OC-12 Wavelength Transport Optical Network Protected ¹ | 2,000.00 | 5,916.00 | 4,548.00 | 3,953.00 | 3,400.00 | W32DM |
| (v) | Per OC-48 Wavelength Transport Optical Network Protected ¹ | 2,500.00 | 10,557.00 | 8,118.00 | 7,055.00 | 6,137.00 | W32DO |
| (w) | Per OC-192 Wavelength Transport Optical Network Protected ¹ | 3,000.00 | 19,873.00 | 15,283.00 | 13,294.00 | 11,560.00 | W32DQ |
| (x) | Per Gigabit Ethernet at 1 Gbps Wavelength Transport Optical Network Protected ¹ | 2,000.00 | 5,296.00 | 4,072.00 | 3,545.00 | 3,060.00 | W32DS |
| (y) | Per Fibre Channel 100 Wavelength Transport Optical Network Protected ¹ | 2,000.00 | 5,296.00 | 4,072.00 | 3,545.00 | 3,060.00 | W32DU |
| (z) | Per Fibre Channel 200 Wavelength Transport Optical Network Protected ¹ | 2,500.00 | 9,503.00 | 7,310.00 | 6,358.00 | 5,525.00 | W32DW |
| (aa) | Per Fast Ethernet at 100 Mbps Wavelength Transport Optical Network Protected ¹ | 2,000.00 | 2,882.00 | 2,219.00 | 1,930.00 | 1,683.00 | W32DY |
| (ab) | Per Fibre Connection TM Channel Wavelength Transport Optical Network Protected ¹ | 2,000.00 | 5,296.00 | 4,072.00 | 3,545.00 | 3,060.00 | W32D1 |
| (ac) | Per Fibre Connection TM Express Channel Wavelength Transport Optical Network Protected ¹ | 2,500.00 | 9,503.00 | 7,310.00 | 6,358.00 | 5,525.00 | W32D3 |
| (ad) | Per Enterprise System Connection TM - SBCON Channel Wavelength Transport Optical Network Protected ¹ | 2,000.00 | 2,992.00 | 2,304.00 | 1,998.00 | 1,743.00 | W32D5 |

4. Amplification

| | | | | | | | |
|-----|---|----------|----------|----------|----------|----------|-------|
| (a) | Optical Signal Amplification Node, Per Node | 2,000.00 | 3,440.00 | 2,645.00 | 2,300.00 | 2,000.00 | W32RE |
|-----|---|----------|----------|----------|----------|----------|-------|

C. BellSouth Wavelength service Client Protection Rearrangement Charge

| | | | | | | | |
|-----|---|----------|---|---|---|---|-------|
| (a) | Client Protection Rearrangement Charge Subsequent to initial installation | 1,500.00 | - | - | - | - | CPROT |
|-----|---|----------|---|---|---|---|-------|

Note 1: Optical Network Protected Wavelength Channels are available for transport between two (2) customer premise Service Node locations on a Dedicated Ring Arrangement or for transport between a customer premise Service Node location and a telephone company serving wire center Service Node where they may connect to another BellSouth Wavelength service Dedicated Ring Arrangement or to BellSouth Wavelength service Basic Arrangement Unprotected wavelength channels that are not configured with Channel Network Protection.

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By



Executive Director